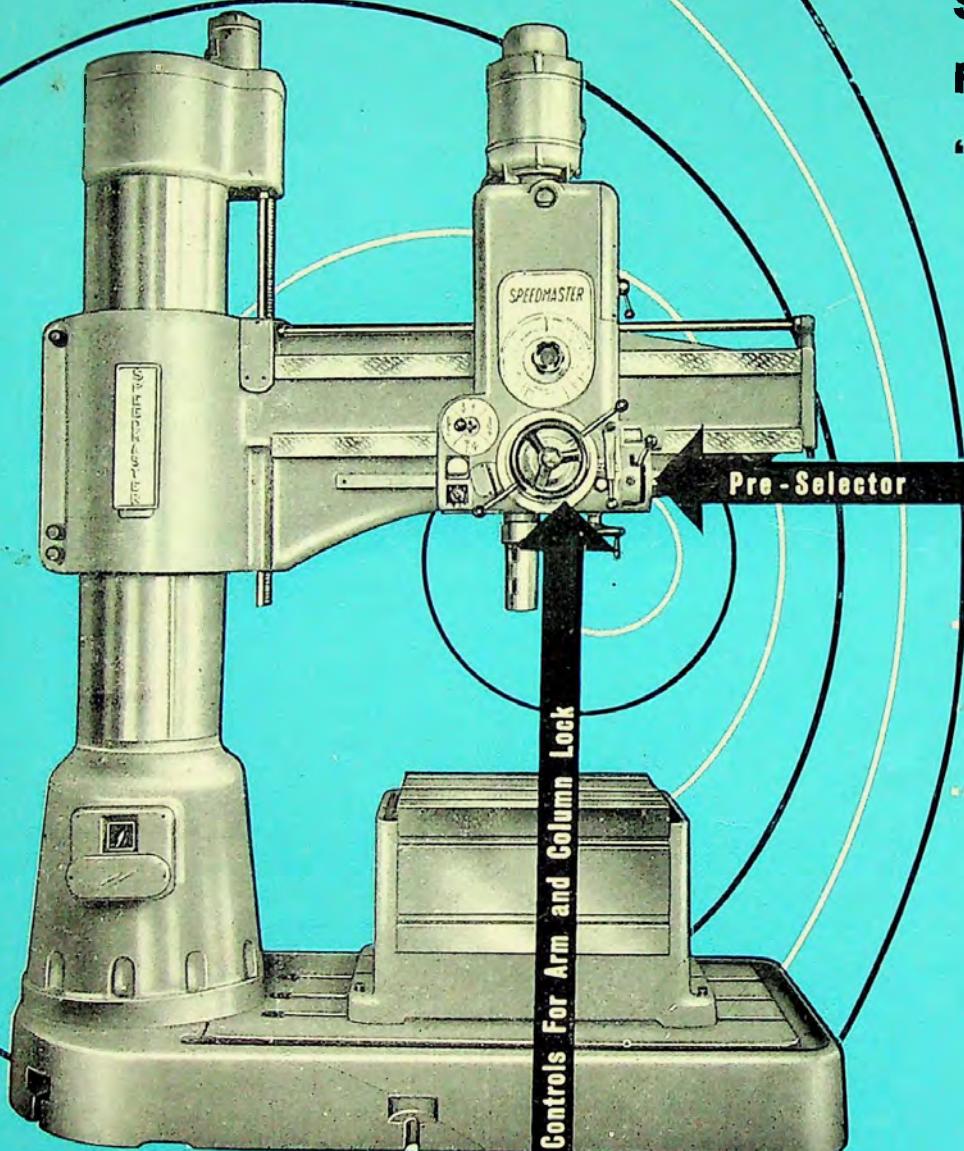


# SPEEDMASTER RADIAL DRILL

Speedier, More  
Profitable  
“Hole,, Production  
INCREASED

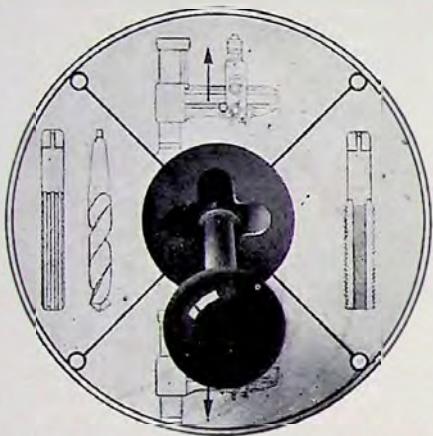


...Ruggedness  
...Accuracy  
...Economy

NEW EQUIPMENT DIVISION  
150 - 53rd ST.  
BROOKLYN 32, N. Y.

S & S MACHINERY CO.

# Main features



## SPINDLE and ARM CONTROLS

are mounted low on the head for faster easier reach and activate the up and down movement of the arm as well as the reverse rotation of the spindle. The spindle reverse is effected by a built-in electric control, thus simplifying all lapping operations.

**PRE-SELECTOR** of SPEEDMASTER RADIAL DRILL reduces operation time considerably... permits rapid and easy selection of speeds... enables operator to pre-select speeds without stopping machine.

**COLUMN** is designed to provide the greatest resistance to drilling strains. It is ground and heavily ribbed throughout its length to assure perfect rigidity and stability.

**BASE** of the machine is heavily ribbed to its full depth.

**SPACIOUS CHANNELS** are provided to drain the coolant back through strainers into an ample reservoir.

**SPINDLE AND SHAFTS** are of chrome nickel steel, hardened and ground, mounted in anti-friction bearings and rotate in a bath of oil. The Speedmaster spindle can be stopped instantly, regardless of spindle RPM, by an electro-magnetic brake.

**AL GEARS** on Speedmaster Radial Drills are of chrome nickel steel, hardened and ground and operate in a bath of oil.

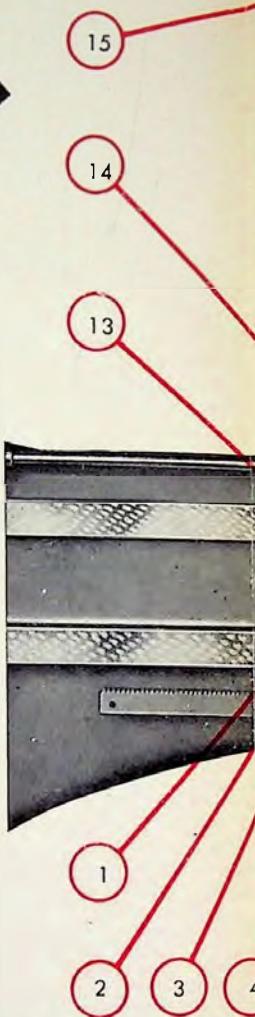
## HIGHER PERFORMANCE S

### S P E E D M

have more than 50 years of radial drill manufacturing and engineering behind them in meeting the drilling needs of world-wide industry has resulted in developing techniques available today. SPEEDMASTERS are designed, assembled and tested with

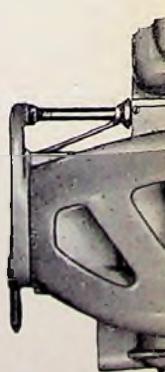
## CONTROLS ARE CENTRALIZED AT THE HEAD

- 1 Electrical switch for up and down movement of arm, and for reversing spindle rotation
- 2 Ammeter
- 3 Two Speed motor switch
- 4 Automatic hand feed
- 5 Hand Traverse
- 6 Push button controls, clamping and unclamping of head & arm
- 7 Graduated dial for depth control
- 8 Hand feed
- 9 Automatic power feed
- 10 Push button spindle brake
- 11 Pre-selector lever
- 12 Pre-selector dial
- 13 Depth control lock
- 14 Feed change
- 15 Electromagnetic brake



## T H E A R M

of the Speedmaster Radial Drill is sturdily ribbed, full box construction type for heavy duty. Perfect alignment and balance permit the arm to swing with but finger tip pressure. For easier maintenance and accessibility the electrical panel is mounted in the rear of the arm. The ways are hardened to 200-220 Brinell standards.

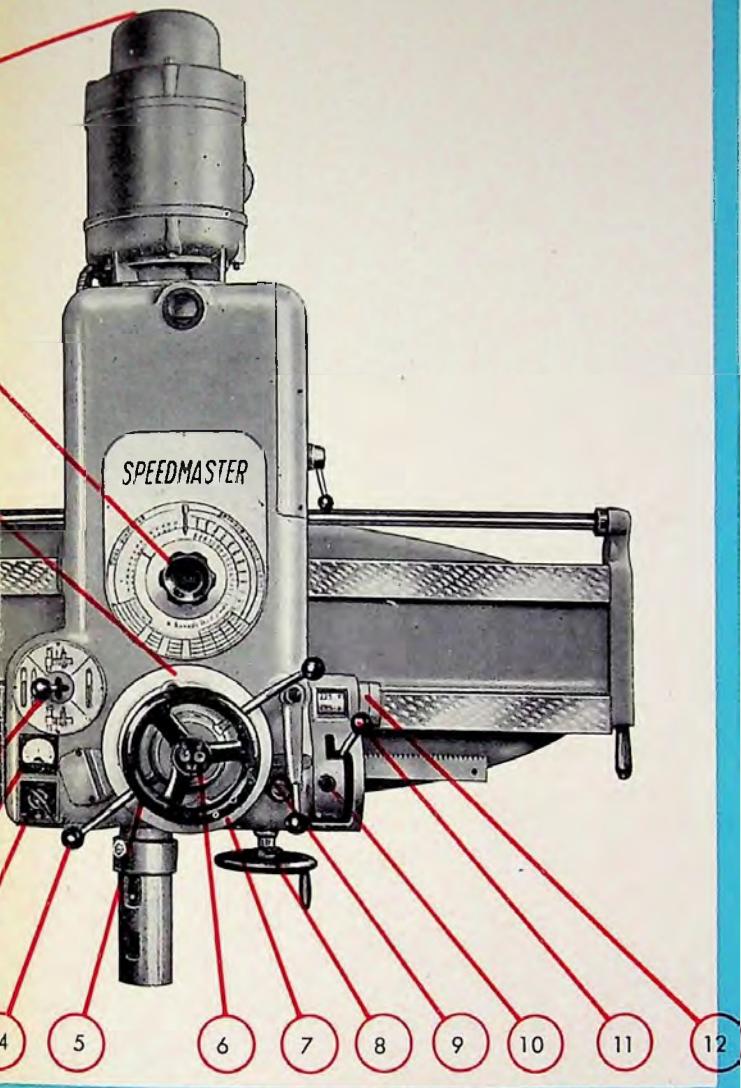


# STANDARDS for DRILLING... BORING... TAPPING

## MASTER RADIAL DRILLS

This intimate experience  
with the most advanced drilling  
and intense care to give each ma-

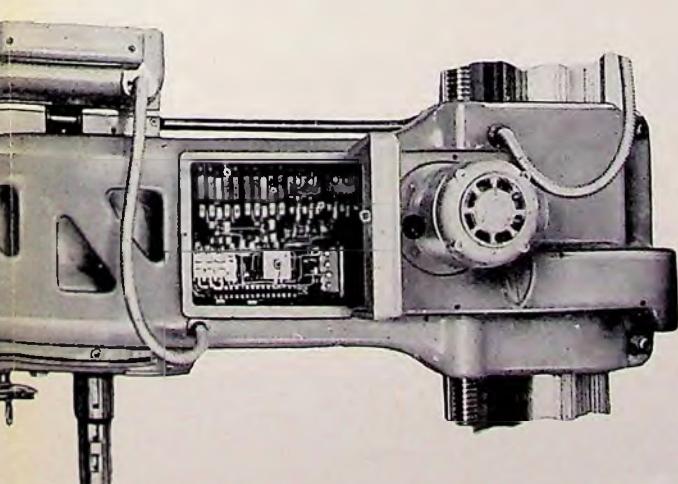
chine the highest individual performance standards. They embody the most modern features to reduce operator fatigue, frictional wear, power losses and down time. Anti-vibrational characteristics and over-all rigidity are integral to the design and operation of all Speedmaster Radial Drills to provide the greatest resistance to varied drilling strains.



### \*ELECTRIC PUSH BUTTON CONTROLS FOR ARM AND COLUMN LOCK

A special time saving and safety feature, this convenient push button control instantly locks or unlocks both arm and head.

\* Standard Equipment on 4' to 12' Models



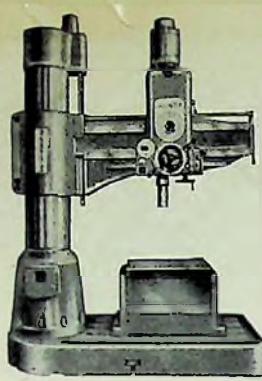
**ALL BEARINGS** are anti-friction to withstand rigorous speed and stress conditions. Main bearings are triple row ball for sustained accuracy and extra long life. They are sealed against dirt.

**SPEED AND FEED SELECTOR.** Easy reading indexing disc on all Speedmaster Radial Drills show proper selection of speed and feed combinations to help operator obtain the best results in drilling, boring or tapping.

**ELECTRICAL EQUIPMENT.** All wiring and electrical equipment is manufactured and installed with the highest safety standards.

**AMMETER.** Speedmaster Radial Drills are equipped with Ammeters for instant readings of electrical load during varied drilling pressures. Operator is thus warned of dull drills or taps immediately.

**THE BOX TABLE** is of sturdy construction. Tee slots are planed from the solid.



# SPEEDMASTER

## RADIAL DRILLS

### S P E C I F I C A T I O N S

Model	RA-1	RA-2	RA-3	RA-4
Drilling cap. in steel . . .	3'-11"	4'-15"	5'-15"	6'-15"
Drilling cap. in cast iron . . .	15/8"	2"	2"	2"
Max. dist. face of col. to ctr. of spdl.	36"	49 1/2"	60"	72"
Min. dist. face of col. to ctr. of spdl.	10"	11"	11"	11"
Maximum drilling radius . . .	42"	57"	67"	79"
Minimum drilling radius . . .	15 3/4"	18 1/2"	18 1/2"	18 1/2"
Longitudinal head travel . . .	26 1/4"	38 1/2"	50 1/2"	62 1/2"
Vertical travel of arm . . .	25 3/4"	29"	29"	29"
Column diameter . . .	11"	15"	15"	15"
Spindle travel . . .	11 3/4"	11 3/4"	11 3/4"	11 3/4"
Maximum distance spindle to base .	49"	53"	53"	53"
Minimum distance spindle to base .	11 1/2"	12 1/2"	12 1/2"	12 1/2"
Number of spindle speeds . . .	12	12	12	12
Spindle RPM . . .		43 to 2400		43 to 2400
Spindle feeds . . .	8	8	8	8
Feeds per revolution . . .		.0025 to .0173		.0025 to .0173
Spindle diameters . . .	1 3/4" - 2 7/8"	2-3/16" - 3 3/8"	2-3/16" - 3 3/8"	2-3/16" - 3 3/8"
Morse taper . . .	No. 4	No. 5	No. 5	No. 5
Spindle motor HP (2 speed) . . .	4-5	5.5-6.5	5.5-6.5	5.5-6.5
Arm and head clamping motor . . .		1 HP	1 HP	1 HP
Plain box table—				
Oil grooved box table . . .	21 1/4" x 25 1/4" x 15 1/2"	22" x 25 3/4" x 13 1/2"	22" x 25 3/4" x 13 1/2"	22" x 25 3/4" x 13 1/2"
Work'g. surf. of base, tee slotted and oil grooved . . .	22" x 39 1/2"	28 3/8" x 51"	28 3/8" x 65"	28 3/8" x 77"
Arm elevating motor HP . . .	3	4	4	4
Height of base (tee slotted) . . .	7 1/4"	9"	9"	9"
Length of base . . .	65"	80"	90"	100"
Width of base . . .	29 1/2"	36 1/2"	36 1/2"	36 1/2"
Approximate net weight . . .	5000 lbs.	7550 lbs.	8300 lbs.	9200 lbs.

Standard equipment: Motors and electrical controls.

Extra equipment: Motor driven coolant pump; box table and universal table.

Specifications subject to change without notice

SPEEDMASTER RADIAL DRILLS ALSO AVAILABLE IN 6', 7', 8', 10', 12' SIZES

**S & S MACHINERY CO.**  
NEW EQUIPMENT DIVISION

150 - 53rd ST. • BROOKLYN 32, N. Y.

Hyacinth 2-7400

Cable: Sandtools